

Comparisons of Job Characteristics

Focus Occupation: [First-Line Supervisors of Production and Operating Workers \(51-1011\)](#)
Associated Occupation: [Water and Wastewater Treatment Plant and System Operators \(51-8031\)](#)

[Compare Knowledge](#)
[Compare Skills](#)
[Compare Abilities](#)
[Compare Detailed Work Activities](#)
[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 50

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)
Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Mechanical	6.8	14.8	10.9	<<	Extensive education and/or training may be required
Mathematics	9.2	13.5	10.6	<<	Extensive education and/or training may be required
Physics	4.3	13.2	3.6	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	12.7	7.3	<<	Extensive education and/or training may be required
Chemistry	4.8	12.6	5.0	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	11.1	8.3	<<	Extensive education and/or training may be required
Biology	3.7	10.9	1.7	<<	Extensive education and/or training may be required
Production and Processing	6.0	10.8	17.4	>>	Current knowledge level is likely more than sufficient
Building and Construction	4.0	10.0	2.6	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 25

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)
Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
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Operation Monitoring	6.6	11.9	8.1	<<	Extensive development of skills in this area may be required
Operation and Control	5.4	11.4	5.1	<<	Extensive development of skills in this area may be required
Quality Control Analysis	5.9	10.3	8.2	<	A higher skill level may be required
Equipment Maintenance	3.5	9.3	4.1	<<	Extensive development of skills in this area may be required
Troubleshooting	4.5	9.3	5.5	<<	Extensive development of skills in this area may be required
Repairing	3.4	9.0	4.1	<<	Extensive development of skills in this area may be required
Equipment Selection	3.3	7.4	3.6	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 83			
Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Perceptual Speed	7.4	9.8	8.4	<	Some improvement in abilities may be required
Depth Perception	5.3	8.0	5.5	<<	Extensive improvement in abilities may be required
Gross Body Equilibrium	3.2	7.1	2.2	<<	Extensive improvement in abilities may be required
Gross Body Coordination	3.9	6.9	4.1	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	6.9	3.8	<<	Extensive improvement in abilities may be required
Wrist-Finger Speed	3.2	5.4	3.2	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 57
Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011) Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)		
Work Activities	Exclusivity of Activity	
Adjust production equipment/machinery setup	25	
Direct and coordinate activities of workers or staff	3	
Maintain production or work records	19	
Monitor production machinery/equipment operation to detect problems	27	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 59

Focus Occupation: First-Line Supervisors of Production and Operating Workers (51-1011)

Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Tools and Technologies	Exclusivity
Business function specific software	1
Computers	1
Data management and query software	1
Finance accounting and enterprise resource planning ERP software	2

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.